

IN THE CLAIMS

This listing of claims replaces all prior versions, and listings, in this application.

1. (currently amended) A process for preparing a cancer cell-transplanted non-human animal comprising: preparing a cell culture support coated on a surface with a polymer which changes its hydration force in a temperature range of 0-80°C, then cultivating cancer cells on the cell culture support in a temperature region wherein the polymer has weak hydration force, thereafter adjusting the culture solution to a temperature at which the polymer has a stronger hydration force, whereby the cultured cancer cells are detached in a sheet from the cell culture support without being treated with a proteolytic enzyme, and transplanting the detached cancer cells in sheet form to a specified site of ~~[[an]]~~ a non-human animal.

Claim 2 (canceled)

3. (currently amended) The process for preparing a cancer cell-transplanted non-human animal according to claim ~~[[2]]~~ 1, wherein the size of a cancer tissue of the non-human animal is controlled by changing the size of the sheet of cancer cells ~~sheet to be transplanted is prepared in a specified shape of a specified size so that the size and/or shape of the cancer tissue transplanted into the animal is controlled.~~

Claim 4 (canceled)

5. (currently amended) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein a carrier is placed in ~~intimate~~ contact over the cultured cells at the end of cultivation and the cells are detached intact together with the carrier.

6. (currently amended) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein the cancer cells are of a transplantable cell line.

7. (currently amended) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein the cancer cells are of an untransplantable cell line.

8. (currently amended) The process for preparing a cancer cell-transplanted non-human animal according to claim 7, wherein the untransplantable cell line is MGT-40, MGT-90, CS-C9 or CS-C20.

9. (currently amended) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein the cancer cells are collected from a living tissue.

10. (currently amended) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein no more than 8×10^5 cells are transplanted.

11. (currently amended) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein the polymer is poly(N-isopropylacrylamide).

12. (currently amended) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein the non-human animal is a nude mouse, a rat, a mouse, a guinea pig, or a rabbit.

13. (currently amended) A cancer cell-transplanted non-human animal prepared by the process according to claim 1.

14. (currently amended) A method of selecting an anti-tumor agent comprising: administering a test substance to ~~an animal before and/or after transplanting cancer cells in the process of preparing~~ a cancer cell-transplanted non-human animal prepared according to claim 1 and selecting a ~~evaluating the effect of the administered test~~

~~substance on tumor formation~~ that reduces volume and/or weight of a tumor formed from the sheet of cancer cells.

15. (currently amended) A cancer cell-transplanted non-human animal prepared by the process according to claim [[2]] 3.

16. (currently amended) A method of selecting an anti-tumor agent comprising:
administering a test substance to ~~an animal before and/or after transplanting cancer cells in the process of preparing~~ a cancer cell-transplanted non-human animal prepared according to claim [[2]] 3 and selecting a ~~evaluating the effect of the administered~~ test substance ~~on tumor formation~~ that reduces volume and/or weight of a tumor formed from the sheet of cancer cells.

Claims 17-20 (canceled)

21. (new) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein the cell culture support consists of a homo- and/or co-polymer which changes its hydration force in a temperature range of 0-80°C.

22. (new) A process for preparing a cancer cell-transplanted non-human animal comprising:

- (a) preparing a cell culture support coated on a surface, wherein the cell culture support is comprised of a polymer which shifts from a dehydrated state to a hydrated state in the range of 0-80°C;
- (b) cultivating cancer cells on the cell culture support at a temperature at which the polymer is dehydrated;
- (c) cooling the cell culture support to a temperature at which the polymer is hydrated, whereby a sheet of cancer cells is detached from the cell culture support without being treated with a proteolytic enzyme; and
- (d) transplanting the sheet of cancer cells to a specified site of a non-human animal.

23. (new) The process for preparing a cancer cell-transplanted non-human animal according to claim 22, wherein the cell culture support consists of a homo- and/or co-polymer which shifts from a dehydrated state to a hydrated state in the range of 0-80°C.

24. (new) The process for preparing a cancer cell-transplanted non-human animal according to claim 22, wherein the polymer is poly(N-isopropylacrylamide).

25. (currently amended) A cancer cell-transplanted non-human animal prepared by the process according to claim 22.

26. (currently amended) A method of selecting an anti-tumor agent comprising: administering a test substance to a cancer cell-transplanted non-human animal prepared according to claim 22 and selecting a test substance that reduces volume and/or weight of a tumor formed from the sheet of cancer cells.